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Derwent Title: **Synchronization pulse signal generator for AC power supply system, has smoothing resistor and capacitor which are connected to anode of photodiode**

Original Title: ☒ **JP2001218450A2: POWER SUPPLY SYNCHRONOUS PULSE SIGNAL GENERATING CIRCUIT**

Assignee: **RICOH KK** Standard company
Other publications from [RICOH KK \(RICO\)](#)...

Inventor: **None**

Accession/ **2002-271820 / 200232**

Update:

IPC Code: **H02M 1/08 ; G05F 1/10 ; H03K 17/78 ;**

Derwent Classes: **U21;**

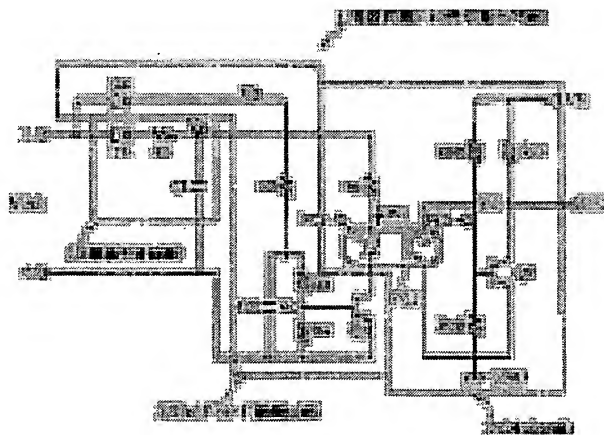
Manual Codes: **U21-B01A**(Switching using bipolar transistors and diodes) ,
U21-B02A3(Providing predetermined threshold before switching and switching at zero-crossing) , **U21-B05C**(Power converters and power switching)

Derwent Abstract: (JP2001218450A2) **Novelty** - The anode of the photodiode (PC1-D) is coupled to node of a smoothing capacitor (C1) and smoothing resistor (R1) of rectification circuit (11). The cathode of photodiode is coupled to collector of a transistor (Q1) in a drive circuit (12) comprising smoothing resistor (R2) and smoothing capacitor (C2). The collector of phototransistor is connected to a DC drive power supply.

Use - For generating synchronization pulse signal in AC power supply system.

Advantage - Reduces deviation of zero cross point of synchronization pulse signal with respect to actual zero-across point of sine-wave signal due to effective control of photodiode current.

Images:



Description of Drawing(s) - The figure shows an electric circuit diagram of synchronization pulse signal generator. (Drawing includes non-English language text).

Rectification circuit 11, Drive circuit 12, Capacitors C1,C2, Photodiode PC1-D,
Transistor Q1, Resistors R1,R2 Dwg.1/6

Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
<input checked="" type="checkbox"/> JP2001218450A2	* 2001-08-10	200232	7	English	H02M 1/08
Local appls.:					

Priority Number:

Application Number	Filed	Original Title
JP2000000024507	2000-02-01	POWER SUPPLY SYNCHRONOUS PULSE SIGNAL GENERATING CIRCUIT

Title Terms:

SYNCHRONISATION PULSE SIGNAL GENERATOR AC POWER SUPPLY
SYSTEM SMOOTH RESISTOR CAPACITOR CONNECT ANODE PHOTODIODE

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